



Material Safety Data Sheet  
For Armco Products

DMS 1650 00788

General Office  
703 Curtis Street  
Middletown, Ohio 45043

Section I

PRODUCT NAME OR NUMBER <b>6AL-4V AMS-428</b>		EMERGENCY TELEPHONE NUMBER <b>513/425-5864</b>
MANUFACTURING FACILITY, COMPANY OR SUBSIDIARY <b>OREGON METALLURGICAL CORPORATION</b>		
ADDRESS (NUMBER, STREET, STATE AND ZIP CODE) <b>530 W. 34th Ave., Albany, OR 97321</b>		
DOT HAZARDOUS MATERIAL PROPER SHIPPING NAME (49 CFR 172.101) <b>N/A</b>		DOT HAZARD CLASS (49 CFR 172.101) <b>N/A</b>
CHEMICAL FAMILY <b>Titanium Alloy</b>	DOT HAZARDOUS WASTE NO. <b>N/A</b>	DOT IDENTIFICATION NO. (49 CFR 172.101) <b>N/A</b>

Section II

CHEMICAL COMPONENTS

	C.A.S. NUMBER	%
Titanium	7440-32-6	90
Aluminum	7429-90-5	6
Vanadium	7440-62-2	4

Section III

PHYSICAL DATA

Boiling Point	N/A	Solubility in Water	Insoluble	Evaporative Rate (Ethyl ether = 1)	N/A
Vapor Pressure mm Hg @ 20°C	N/A	Specific Gravity (H <sub>2</sub> O = 1)	4.5	pH =	N/A
Vapor Density (Air = 1)	N/A	Percent Volatile by Volume	0		N/A
APPEARANCE AND ODOR <b>Odorless gray ingots and billets</b>					

Section IV

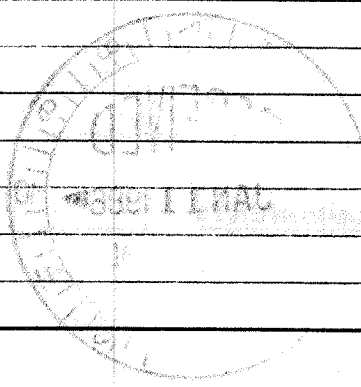
FIRE AND EXPLOSION HAZARD DATA

CLOSED CUP FLASH POINT °F <b>N/A</b>	LEL N/A %	UEL N/A %	IGNITION TEMPERATURE °F <b>N/A</b>
EXTINGUISHING MEDIA <b>Dry salt or powder extinguisher for metal fire, inert gas (Argon, Helium)</b>			
SPECIAL FIRE FIGHTING PROCEDURES <b>Remove uninvolved material, allow fire to burn out. Cover involved material with salt or powder from extinguisher. If fire in container, smother with inert gas.</b>			
UNUSUAL FIRE AND EXPLOSION HAZARDS <b>Do not use water or other liquid extinguishers as hydrogen may be evolved.</b>			
<b>Nitrogen and carbon dioxide are ineffective.</b>			

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## Section V EFFECTS OF EXPOSURE, EMERGENCY AND FIRST AID PROCEDURES

No toxic effects would be expected under normal usage. The "nuisance dust" standard would apply.



## Section VI REACTIVITY DATA

STABLE <input checked="" type="checkbox"/>	UNSTABLE <input type="checkbox"/>	CONDITIONS TO AVOID Open flames, excessive heat
INCOMPATIBILITY (MATERIALS TO AVOID)		Strong oxidizing or reducing agents
DECOMPOSITION PRODUCTS Titanium dioxide, aluminum oxide, vanadium pentoxide		
HAZARDOUS POLYMER- IZATION	MAY OCCUR <input type="checkbox"/> WILL NOT OCCUR <input checked="" type="checkbox"/>	CONDITIONS TO AVOID N/A

## Section VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Recover material if possible
WASTE DISPOSAL METHOD Landfill in accordance with applicable local, state and federal regulations

## Section VII PERSONNEL PROTECTION INFORMATION

No special precautions
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## Section IX SPECIAL PRECAUTIONS AND ADDITIONAL INFORMATION

Store as a combustible material - hard to ignite, but very difficult to extinguish. The smaller the particles, the greater the fire hazard.
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While the information and recommendations set forth on this data sheet are believed to be accurate as of the present date, ARMCO MAKES NO WARRANTY WITH RESPECT THERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.

Prepared by: STEPHEN S. FELTON  
Corporate Toxic Substances Engineer

*Stephen S. Felton*  
SIGNATURE AND DATE

10/15/89

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